

	Model 1: SEIR	Model 1c: SEIR	Model 1d: SEIR	Model 1e: SEIR
Baseline assumption: population fully susceptible at start of outbreak		Baseline model but with 10% of the population assumed to be initially immune	Baseline model but with 20% of the population assumed to be initially immune	Baseline model but with 30% of the population assumed to be initially immune
Parameter				
Mean latent period (days)	34.4 (28.8, 38.8)	34.3 (28.5, 38.8)	34.2 (28.9, 38.8)	34.2 (28.8, 38.8)
Mean infectious period (days)	35.9 (20.9, 64.4)	36.0 (21.4, 65.2)	35.6 (21.5, 64.6)	38.3 (21.6, 64.8)
Infections reported (%)	12.5 (11.4, 13.6)	13.8 (12.7, 15.1)	15.6 (14.3, 17.0)	17.8 (16.3, 19.4)
R_0 Agoro	6.5 (4.5, 9.9)	7.2 (5.0, 11.0)	8.4 (5.7, 12.4)	9.6 (6.5, 14.2)
R_0 Madi Opei	3.7 (2.8, 5.1)	4.2 (3.0, 5.7)	4.7 (3.5, 6.4)	5.4 (4.0, 7.3)
R_0 Paloga	8.5 (5.3, 11.4)	9.4 (5.9, 14.7)	10.5 (6.7, 16.5)	12.1 (7.6, 12.9)
Day 1st infection Agoro	278 (257, 298)	280 (260, 300)	283 (263, 302)	286 (265, 304)
Day 1st infection Madi Opei	62 (16, 103)	65 (19, 106)	70 (24, 110)	74 (28, 114)
Day 1st infection Paloga	327 (305, 343)	328 (307, 343)	330 (310, 343)	331 (312, 343)